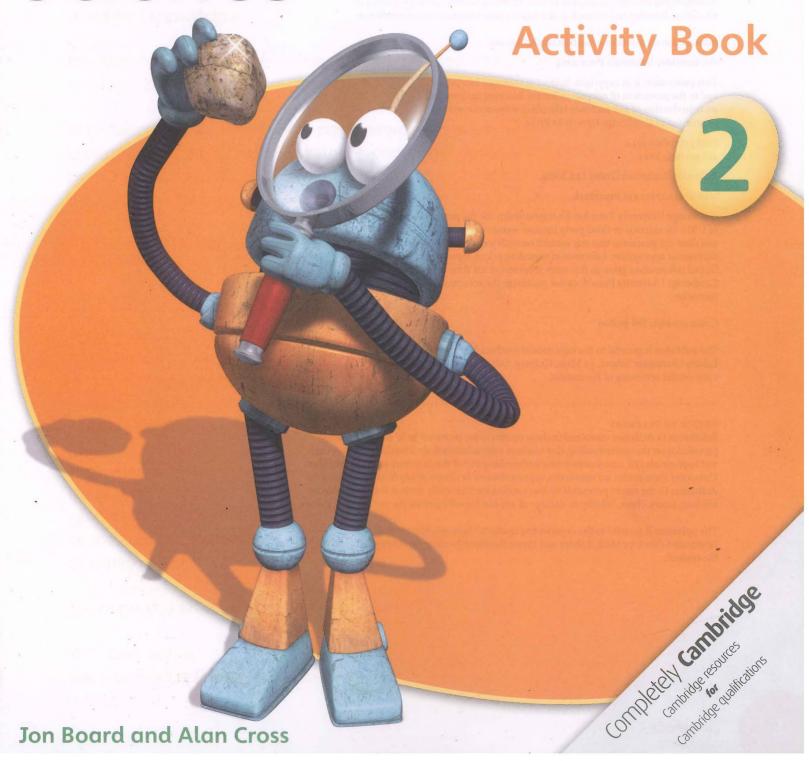


CAMBRIDGE PRIMARY Science



CAMBRIDGE UNIVERSITY PRESS

University Printing House, Cambridge CB2 8BS, United Kingdom

Cambridge University Press is part of the University of Cambridge.

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Information on this title: education.cambridge.org

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First published 2014 4th printing 2015

Printed by Multivista Global Ltd, India

ISBN 9781107611436 Paperback

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The publisher is grateful to the experienced teachers Mansoora Shoaib Shah, Lahore Grammaer School, 55 Main, Gulberg, Lahore and Lynne Ransford for their careful reviewing of the content.

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Introduction

The Cambridge Primary Science series has been developed to match the Cambridge International Examinations Primary Science curriculum framework. It is a fun, flexible and easy to use course that gives both learners and teachers the support they need. In keeping with the aims of the curriculum itself, it encourages learners to be actively engaged with the content, and develop enquiry skills as well as subject knowledge.

This Activity Book for Stage 2 is designed to be used alongside the Learner's Book for the same stage, ISBN 978-1-107-61139-9.

In this book you will find a single-page exercise to accompany each topic presented in the Learner's Book. The exercises are designed to be completed as pen-and-paper exercises, and learners can work on them individually or in pairs or small groups. You can set the exercises as in-class work or homework.

There are different styles of exercise throughout to maintain interest and to suit different purposes. The main aims of the exercises in this book are:

- to consolidate the subject knowledge presented in the Learner's Book
- to encourage learners to apply the knowledge in new situations, thus developing their understanding
- to practise scientific language...
- to develop scientific enquiry skills such as identifying simple patterns in evidence and interpreting results from investigations.

The answers to the exercises in this Activity Book are available in the Teacher's Resource for Stage 2, ISBN 978-1-107-61148-1. This resource also contains extensive guidance on all the topics, ideas for classroom activities, and guidance notes on all the activities presented in this Activity Book. You will also find a large collection of worksheets.

We hope you enjoy using this series.

With best wishes, the Cambridge Primary Science team.

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Useful words

collect	to find things and keep them together
	Zhi collected ten different rock samples to look at.
complete	to finish or make whole
	Priya added a wire to complete the circuit
different	not the same as something
	Ade saw that the beetles were different.
fair test	a test where you only change one thing and keep other things the same
	Indu kept the height the same to make her test fair.
make	to create or construct something
	Rudo found he could make the circuit easily.
match	to find something that is the same or similar, or that goes with something
	Zola matched pictures of different rocks with their names

measure	to find the size or amount of something, for example length or time
	Hadya used some dominoes to measure the length of the shadow.
pictogram	a chart that shows numbers or amounts of things as simple pictures
	Luiz made a pictogram to show the different eye colours in the class.
predict	to say what you think will happen
	Ime was asked to predict how high the ball would bounce.
record	to write, draw or photograph something that was seen or happened
	Yuki wrote the measurements down to record what he found.
research	to find out about something, for example by using books or the internet
	Dina used the internet to research earthworms and what they eat.

safe	when there is no danger of getting hurt
,	Today we will learn how to stay safe with mains electricity
same	just like something else, not different
	Kurt looked to see if the weather was the same as it was the day before.
symbol	a picture that stands for something else
	Danny used a symbol of a cloud to record cloudy weather.
unfair test	a test which is not fair, for example, when more than one thing is changed
	Jeet did not put the same amount of sugar in the cold water and the hot water so his test was unfair .

Going outside

Exercise 1.1 A good place to live

In this exercise, you will think about what living things need.

Look at the pictures. Do you think each place would be a good place for animals and plants to live?

Use these words to complete the sentences about each place.

a lot of	difficult	easy	good	hard	not much
W. Com	and and	>	100 00 00	Au orl	
	A Man E				Tan de la constant de
1 This wo	ould be a		2 This	s would I	ое а
	place for			, p	lace for
animals and	d plånts to liv	ve.	animals	and plan	nts to live.
There is	,	water.	There is		water.
It would be			It would	l be	
to find food	l. It would be	2	to find f	ood. It v	vould be
	to find s	helter.		t	o find shelter.

Exercise 1.2 How can we harm the environment?

In this exercise, you will think about how we can harm the environment.

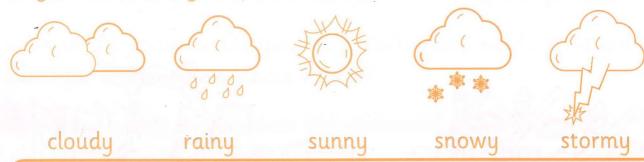


Circle the things that could harm the environment in this picture.

Exercise 1.3 Our weather

In this exercise, you will make a weather diary.

Look outside at the weather. Fill in this weather diary for five days. Use these symbols.



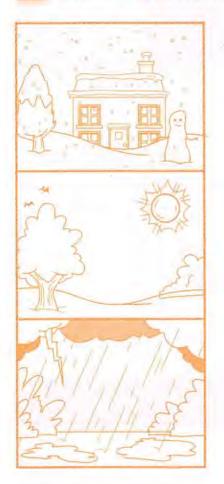
Day	Weather

What type of weather did you see the most?

Exercise 1.4 Extreme weather

In this exercise, you will show that you know what to wear in extreme weather.

Draw a line from each weather picture to the right clothes.





What is your favourite weather?

Use one of these words to complete the sentence.

cloudy rain snow sunny wind					
	cloudy	rain	snow	sunny	wind

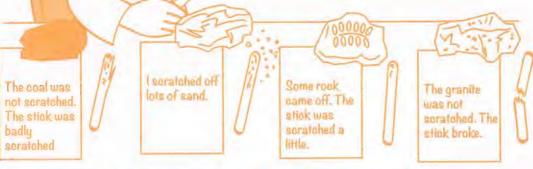
My favourite weather is _____

2 Looking at rocks

Exercise 2.1 Comparing rocks

In this exercise, you will look at how some rocks are harder than others.

Wah used a wooden stick to scratch rocks. This is what she found.



Complete the sentences. Use these words.

granite hard sandstone soft

- The softest rock was _____
- The hardest rock was _____
- The coal and granite damaged the wooden stick because they are
- The limestone and sandstone did not damage the wooden stick very much because they are ______.

Exercise 2.2 Uses of rocks

In this exercise, you will think about how rocks are used.



Draw something to show how each rock might be used.

diamond	coal
chalk	sandstone

Exercise 2.3 Soil

In this exercise, you will learn how rocks in soil help water drain through the soil.

Bjorn has three plant pots with different soils. He pours a jug of water on each. Look at the water that has dripped though.



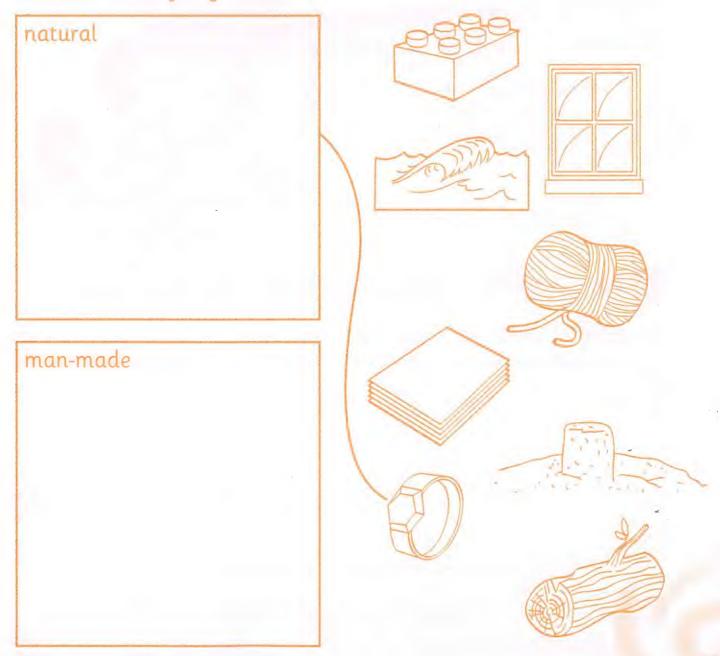
- Which soil has let the most water through? _____
- 2 Which soil is the wettest?
- Complete these sentences. Use these words.

compost	few rocks	lots of rocks	stony
The	soil has let i	nost water throug	jh because it
The	has let least	water through be	ecause it has

Exercise 2.4 Natural and man-made materials

In this exercise, you will sort materials into those that are natural and those that are man-made.

Draw a line from each material to the right box. The first one has been done for you.





Changing materials

Exercise 3.1 Balloons changing shape

In this exercise, you will look at squashing balloons.

These boys are squashing balloons.



Alex squashes a balloon even harder than these boys.

Draw what his balloon will look like.

Talk to your friends. Say why the balloons in the pictures look different.

Exercise 3.2 Bending and twisting

In this exercise, you will think about bending and twisting materials.

What has happened to these materials?

Use these words.

bent twisted

This towel has been _____







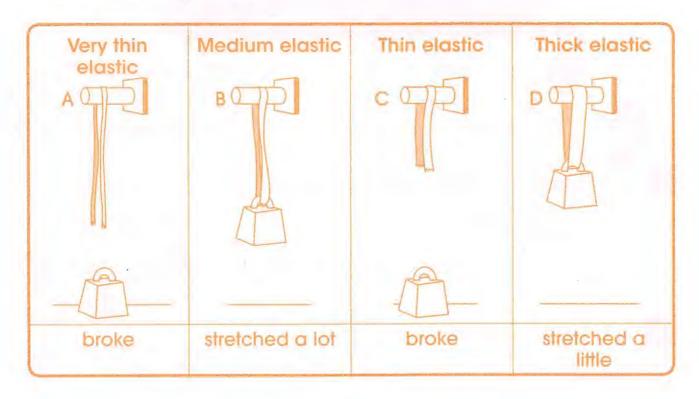
4 This metal has been ______ to make a hook.

Exercise 3.3 Stretching elastic

In this exercise, you can show you know about stretching elastic bands.

Paula and Selima stretched different elastic bands. They were very careful to keep the elastic away from their eyes.

This is what happened.



Look at elastic bands A, B, C and D.

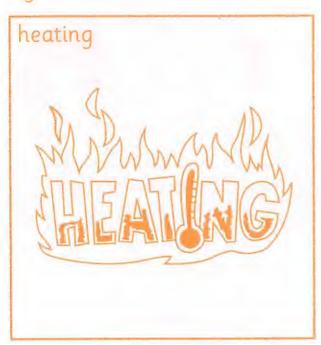
- 11 Which elastic was strongest? _____
- Which were weakest? _____
- 3 Which elastic bands could not be used to hold heavy boxes together? _____

Exercise 3.4 Heating and cooling

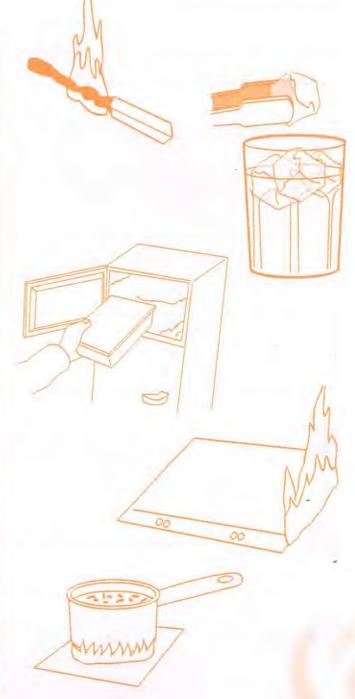
In this exercise, you will sort pictures to show how materials change when they are heated or cooled.

How are these materials being changed? Draw a line to the

right box.







Exercise 3.5 Salty water

This exercise will help you to understand about how salt dissolves in water.

Two children tried to find the answer to this question:

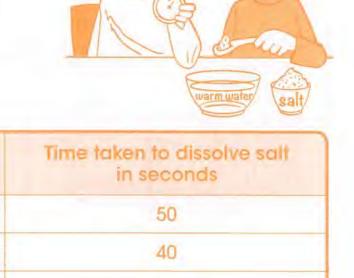
Does salt dissolve faster in hot water than in cold water?

This is what they found out.

Temperature of water

very cold

cold



warm	35
hot	20
1 At which temperature did	the salt dissalve fastest?

At which temperature did the salt dissolve slowest?



Light and dark

Exercise 4.1 Light sources

In this exercise, you will show that you can find light sources.

Colour in the light sources in this picture.



Label the things in the picture using the words in the box.

flame lamp Moon torch

Exercise 4.2 Darkness

In this exercise, you will tell other people what happened.

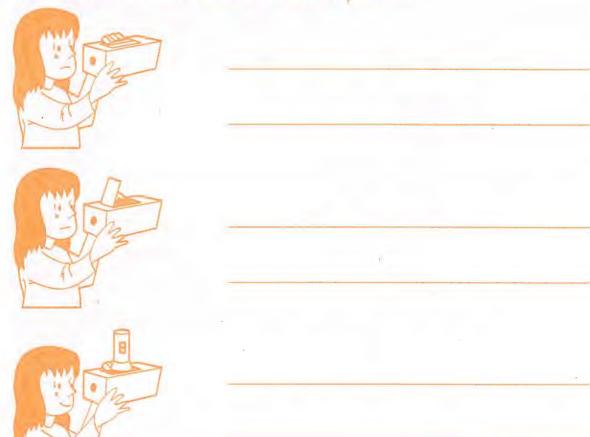
Which of these sentences describes each picture?

It is light. She can see well.

There is some light. It is hard to see.

It is too dark to see.

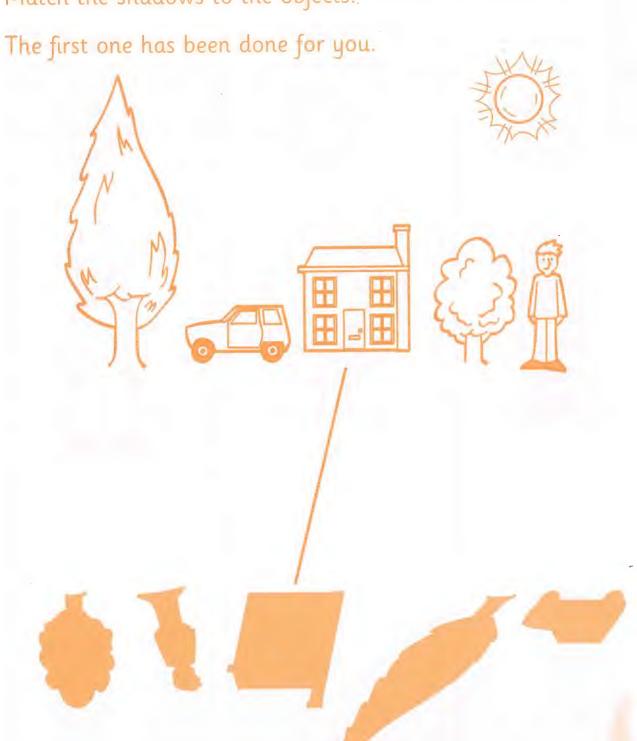
Write the correct sentence beside each picture.



Exercise 4.3 Making shadows

In this exercise, you will show that you can identify shadows.

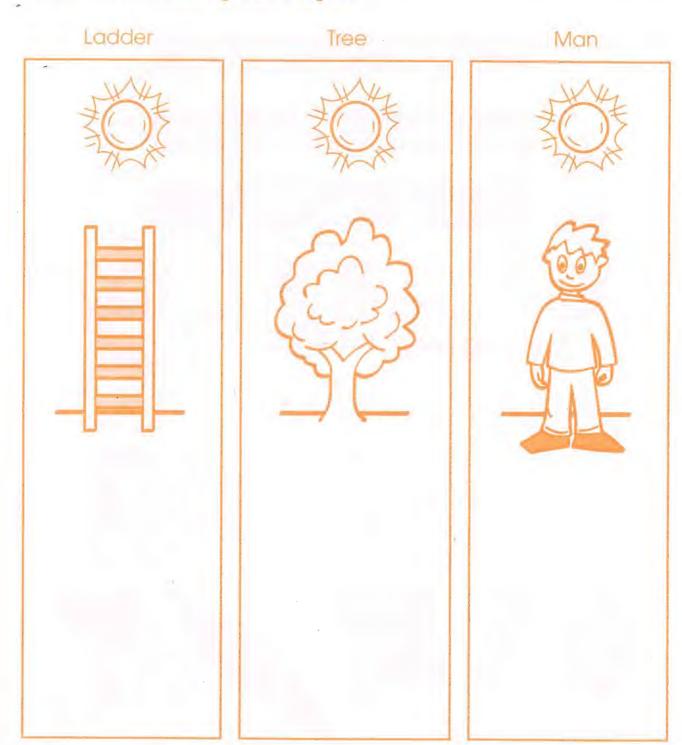
Match the shadows to the objects.



Exercise 4.4 Shadow shapes

In this exercise, you will think about what shadows look like.

Draw the shadow of each object.



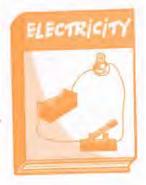


Exercise 5.1 Electricity around us

In this exercise, you will research electricity.

Use books to find out about six things that use electricity.

Draw and name them here.



Exercise 5.2 Electrical safety

In this exercise, you will show that you know how to stay safe with mains electricity.

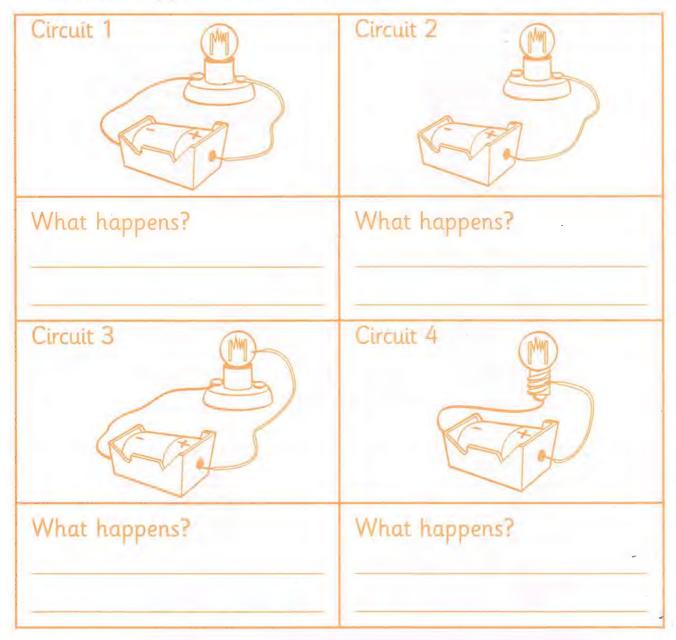
Draw a circle around the things in the picture that are not safe.



Exercise 5.3 Making a circuit

In this exercise, you will think about how a circuit works.

Write what happens in each circuit. Colour in the circuits that work.



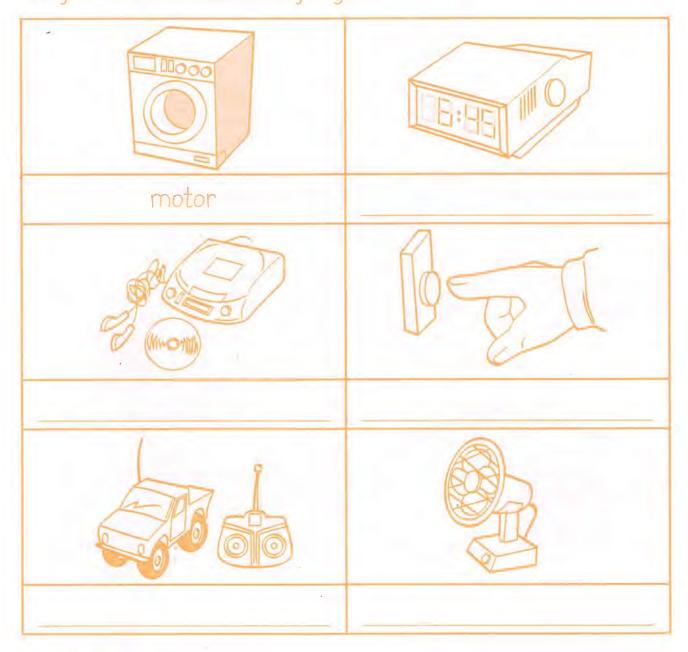
You can use these sentences.

The bulb does not light up.

Exercise 5.4 Using motors and buzzers

In this exercise, you will think about how motors and buzzers are used.

All of these use electricity. Do they use a motor or a buzzer?
The first one has been done for you.



Use these words.

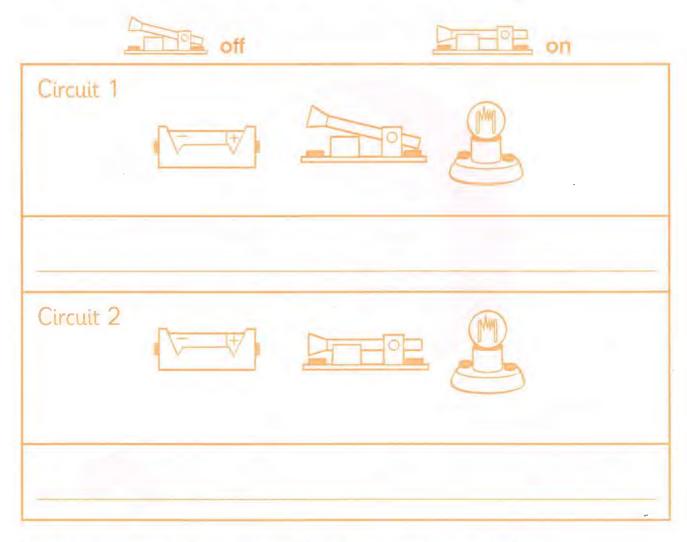
buzzer motor

Exercise 5.5 Switches

In this exercise, you will think about switches.

Draw wires to make each circuit.

Colour the circuits to show which light bulb is on.



Use these sentences to say what happens in each circuit.

This circuit is on. off.



The Earth and the Sun

Exercise 6.1 Day and night

This exercise will check that you know about day and night.

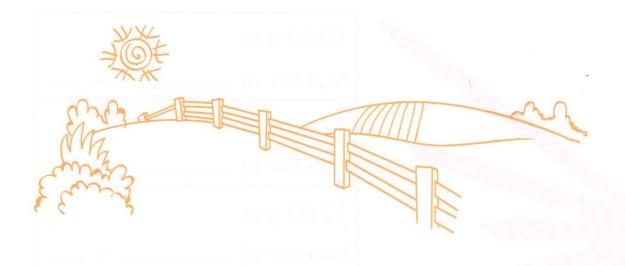
Match the activities to the right places on the Earth.



Exercise 6.2 Does the Sun move?

In this exercise, you will think about how the Sun and the Earth move.

The Sun looks as if it moves across the sky. This is the Sun in the morning. Draw how it will move during the day.



This picture shows the Sun and the Earth.

Draw an arrow to show how the Earth spins.





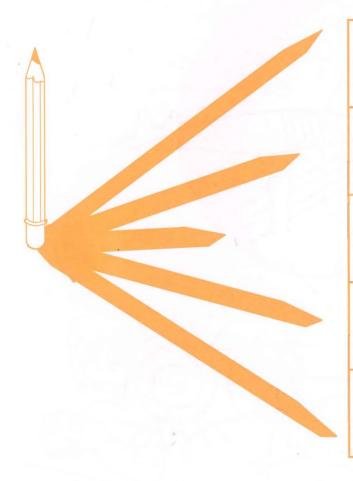
Exercise 6.3 Changing shadows

This exercise will check that you can measure carefully.

Measure the shadow of this pencil.

Use small plastic bricks, counters or coins. Make sure they are the same size or it will be unfair.

Write what you have measured with here.



10.00 a.m.

Number of _____ = ___

11.00 a.m.

Number of _____ = ___

12.00 p.m.

Number of _____ = ___

1.00 p.m.

Number of _____ = ___

2.00 p.m.

Number of _____ = ___

Draw the time of the shortest shadow.



Science

Activity Book

2

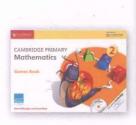
Cambridge Primary Science is a flexible, engaging course written specifically for the Cambridge Primary Science curriculum framework (Stages 1–6). The course offers plenty of teaching ideas to give flexibility, allowing teachers to select activities most appropriate to their classroom and pupils. An enquiry-based style of teaching and learning is stimulated, with the Scientific Enquiry objectives integrated throughout to encourage learning of these skills alongside the scientific concepts. The language level is carefully pitched to be accessible to EAL/ESL learners, with concepts illustrated through diagrams to allow visual understanding and learning.

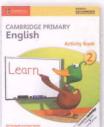
The Activity Book contains:

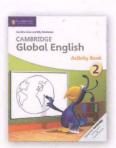
- one exercise to accompany each Topic in the Learner's Book
- exercises that can be completed in class or as homework
- exercises that are designed to consolidate understanding and deepen it by applying knowledge in new situations
- exercises that practise Scientific Enquiry skills.

Other components of Cambridge Primary Science 2:

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